AMENDMENT UNDER 37 C.F.R. § 1.114(c) AND

STATEMENT OF SUBSTANCE OF INTERVIEW

Attorney Docket No.: Q79527 Application No.: 10/788,472

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

**LISTING OF CLAIMS:** 

1. (currently amended): A method of data transmission over a network, comprising:

in a first phase during a transmission cycle, sending solely realtime data telegrams over

the network;

in a second phase during the transmission cycle, sending at least one of realtime data

telegrams and non-realtime data telegrams over the network; and

in a third phase during the transmission cycle, sending at least one of realtime data short

filler telegrams and non-realtime data telegrams while suppressing the transmission of those of

the non-realtime data telegrams for which the transmission cannot be concluded during the third

phase,

wherein the third phase is followed by a new transmission cycle with a new first phase,

during which solely further realtime data telegrams are sent, and

wherein the non-realtime data telegrams contain user application data.

2. (original): The method as claimed in Claim 1, wherein the network comprises an

Ethernet.

3. (original): The method as claimed in Claim 1, wherein said sending comprises

forwarding the data telegrams.

2

AMENDMENT UNDER 37 C.F.R. § 1.114(c) AND

STATEMENT OF SUBSTANCE OF INTERVIEW

Attorney Docket No.: Q79527 Application No.: 10/788,472

4. (original): The method as claimed in Claim 1, implemented on a switching router,

whereby the switching router has at least four transmission priorities.

5. (currently amended): The method as claimed in Claim 1, wherein short filler

telegrams are sent in the third phase, and transmission of the short filler telegrams is concluded

before the new first phase is started.

6. (original): The method as claimed in Claim 1, further comprising performing a time

synchronization of the switching routers.

7. (original): The method as claimed in Claim 6, wherein the time synchronization is

performed with a calculation of a delay between two nodes of the network in combination with a

synchronization signal.

8. (original): The method as claimed in Claim 1, wherein the network is designed as a

line.

9. (currently amended): A switching router for data transmission over a network, having

at least four implemented priorities and configured to:

send exclusively realtime data telegrams over the network in a first phase of a

transmission cycle in accordance with the priorities;

3

AMENDMENT UNDER 37 C.F.R. § 1.114(c) AND STATEMENT OF SUBSTANCE OF INTERVIEW

Attorney Docket No.: Q79527

Application No.: 10/788,472

send at least one of realtime data telegrams and non-realtime data telegrams over the network in a second phase of the transmission cycle in accordance with the priorities; and

send at least one of realtime data short filler telegrams and non-realtime data telegrams but suppress, in accordance with the priorities, the transmission of those of the non-realtime data telegrams in a third phase of the transmission cycle for which the transmission cannot be concluded during the third phase.

wherein the non-realtime data telegrams contain user application data.

- 10. (original): The method as claimed in Claim 9, wherein the network comprises an Ethernet.
- 11. (original): The method as claimed in Claim 9, wherein the sending comprises forwarding the data telegrams.